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09/980,434	11/28/2001	Hiroyuki Yamamoto	9683/95	3419

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EXAMINER	
RAMPURIA, SHARAD K	
ART UNIT	PAPER NUMBER
2683	6

DATE MAILED: 07/07/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/980,434

Applicant(s)

YAMAMOTO ET AL.

Examiner

Sharad Rampuria

Art Unit

2683

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-4, 7-30 and 32-48 is/are pending in the application.
- 4a) Of the above claim(s) 5, 6 and 31 is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-4, 7-30 and 32-48 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 4.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

DETAILED ACTION

Claim objections

Claims 5-6 & 31 objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claims 1 to 4 & 27 to 30 respectively. See MPEP § 608.01(n). Accordingly, the claims 5-6 & 31 not been further treated on the merits.

Claim 47 is objected to because of the following informalities: phrase "sing" should be "using". Appropriate correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Art Unit: 2683

Claims 1-4, 7-11, 14-30, 32-36, & 39-48 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chern (US 6609005) (hereinafter Chern) in view of Kariya (US 6169897) (hereinafter Kariya).

1. Regarding Claim 1, Chern disclosed A location reporting method (abstract), comprising the steps of:

acquiring by said mobile communication terminal location information indicating the location of itself; (col.10; 41-52) and

transmitting, by said mobile communication terminal, after adding said acquired location information to said received data, said data to said computer as up data. (col.10; 57-col.11; 10)

Chern fails to disclosed receiving by a mobile communication terminal, from a computer through a mobile communication network, down data containing a request for location information. However, Kariya teaches in an analogous art, that receiving by a mobile communication terminal, from a computer through a mobile communication network, down data containing a request for location information; (col.6; 32-46) Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include receiving by a mobile communication terminal, from a computer through a mobile communication network, down data containing a request for location information in order to provide a mobile subscriber with local information related to the area where his/her mobile terminal is located.

Kariya *does not disclose expressly*, a computer, however he discloses a radio communication device (col.6; 32-35), which could be obviously contains a computer.

Art Unit: 2683

2. Regarding Claim 2, Chern disclosed all the particulars of the claim except detecting whether said down data contains a character string requesting location information acquisition time.

However, Kariya teaches in an analogous art, that A location reporting method as described in claim 1,

wherein said steps performed by said mobile communication terminal further include the step of: detecting whether said down data contains a character string requesting location information acquisition time; wherein, said acquiring step further includes acquiring the acquisition time of said location information; and wherein, said transmitting step further includes adding said acquired location information acquisition time before transmission. (col.7; 49-col.8; 17)

Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include detecting whether said down data contains a character string requesting location information acquisition time in order to provide local information periodically.

3. Regarding Claim 3, Chern disclosed A location reporting method as described in claim 1, wherein said steps performed by said mobile communication terminal further include the steps of: detecting whether said down data contains a character string requesting information on a state of a user or not; and determining the state of the user of said mobile communication terminal from said acquired location information; and wherein, said transmitting step further includes adding said information on said determined state of the user before transmission. (col.9; 45-65)

4. Regarding Claim 4, Chern disclosed A location reporting method as described in claim 1, wherein said steps performed by said mobile communication terminal further include the steps of: detecting whether said down data contains a character string requesting information on a state of a user or not-; and prompting the user of said mobile communication terminal to select his/her own state; and wherein, said transmitting step further includes adding the information on said selected state of the user before transmission. (col.9; 45-65)

7. Regarding Claim 7, Chern disclosed all the particulars of the claim except down data contains a plurality of addresses. However, Kariya teaches in an analogous art, that A location reporting method as described in claim 1, wherein said down data contains a plurality of addresses; wherein, said steps performed by said mobile communication terminal include the step of: obtaining said plurality of the addresses from said down data; and wherein, said transmitting step includes transmitting said data to said plurality of the addresses in succession. (col.6; 11-18) Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include down data contains a plurality of addresses in order to provide a mobile subscriber with local information related to the area where his/her mobile terminal is located.

8. Regarding Claim 8, Chern disclosed all the particulars of the claim except location information are acquired and transmitted at predetermined intervals. However, Kariya teaches in an analogous art, that A location reporting method as described in claim 1, wherein, after said down data is received, said location information are acquired and transmitted at predetermined intervals. (col.5; 15-32) Therefore, it would have been obvious to one of ordinary skill in the art

Art Unit: 2683

at the time of invention to include location information are acquired and transmitted at predetermined intervals in order to provide local information periodically.

9. Regarding Claim 9, Chern disclosed all the particulars of the claim except transmitting said location information acquired at said predetermined intervals. However, Kariya teaches in an analogous art, that A location reporting method as described in claim 8, wherein, said transmitting step includes transmitting said location information acquired at said predetermined intervals, during the period from the time point to another time point designated by said down data. (col.7; 49-col.8; 17) Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include transmitting said location information acquired at said predetermined intervals in order to provide local information periodically.

10. Regarding Claim 10, Chern disclosed all the particulars of the claim except transmitting said location information acquired at said predetermined intervals. However, Kariya teaches in an analogous art, that A location reporting method as described in claim 8, wherein, said transmitting step includes, after accumulating said location information acquired at said predetermined intervals, transmitting said accumulated data at a time point designated by said down data. (col.7; 49-col.8; 17) Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include transmitting said location information acquired at said predetermined intervals in order to provide local information periodically.

Art Unit: 2683

11. Regarding Claim 11, Chern disclosed A location reporting method as described in claim 1, wherein, said acquiring step includes generating, by said mobile communication terminal, the location of itself using a global positioning system. (col.5; 48-60)

14. Regarding Claim 14, Chern disclosed A location reporting method as described in claim 1, wherein, disclosure information indicating whether said location information is to be disclosed to a computer is stored, in advance, in a predetermined storage means; and wherein, said transmitting step includes adding, in the case of receiving down data from said computer to which said location information is to be disclosed, said acquired location information to said received data and transmitting said data to said computer as up data. (col.7; 1-11)

15. Regarding Claim 15, Chern disclosed A location reporting method as described in claim 14, wherein, said transmitting step includes transmitting, in the case of receiving down data from a computer to which the location information is not to be disclosed, a notice of rejecting the provision of the location information to said computer. (col.7; 33-44)

16. Regarding Claim 16, Chern disclosed A location reporting method as described in claim 1, wherein, said down data contains information designating a method of location measurement; wherein, said acquiring step is capable of acquiring location information by a plurality of different location measuring methods and includes the step of selecting a location measuring method designated by said down data from among said plurality of said location measuring methods; and wherein, said transmitting step includes transmitting, carried on said up data, the

Art Unit: 2683

location information acquired by said selected location measuring method in said acquiring step.

(col.5; 48-60 & col.4; 13-19)

17. Regarding Claim 17, Chern disclosed A location reporting method as described in claim 16, wherein, said down data contains data designating a quality condition of location information; and wherein, said step of selecting a location measuring method includes selecting a location measuring method based on said designated quality condition. (col.5; 48-60 & col.4; 13-19)

18. Regarding Claim 18, Chern disclosed A location reporting method as described in claim 16, wherein, said location measuring method includes any one of a method of using a global positioning system and, a method of identifying a base station covering a range in which said mobile communication terminal is located. (col.5; 48-60 & col.4; 13-19)

19. Regarding Claim 19, Chern disclosed A location reporting method as described in claim 16, wherein, said location information contains: latitude and longitude; or information based on an administrative classification. (col.4; 13-20)

20. Regarding Claim 20, Chern disclosed A location reporting method as described in claim 1, wherein, said computer is an information providing server for providing said mobile communication terminal with location-related information relating to the location of said mobile communication terminal. (col.4; 37-41)

Art Unit: 2683

21. Regarding Claim 21, Chern disclosed A location reporting method as described in claim 1, wherein, said computer is a terminal connected to a network and capable of transmitting and receiving data by radio or wire. (col.4; 27-31)

22. Regarding Claim 22, Chern disclosed A location reporting method as described in claim 1, wherein, said mobile communication terminal is a portable telephone for performing phone conversations by radio. (col.4; 27-31)

23. Regarding Claim 23, Chern disclosed A location reporting method for reporting (abstract), comprising the steps of:
acquiring by said mobile communication terminal location information indicating the location of itself; (col.10; 41-52) and
transmitting, by said mobile communication terminal, after adding said acquired location information to a network address for identifying a server providing map information required for displaying location information, said address to an arbitrary terminal. (col.10; 57-col.11; 10)

Chern fails to disclosed a predetermined computer, location information of a mobile communication terminal acquired in a mobile communication network serving the mobile communication terminal which is capable of performing radio communication. However, Kariya teaches in an analogous art, that to a predetermined computer, location information of a mobile communication terminal acquired in a mobile communication network serving the mobile communication terminal which is capable of performing radio communication; (col.6; 32-46)
Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention

Art Unit: 2683

to include a predetermined computer, location information of a mobile communication terminal acquired in a mobile communication network serving the mobile communication terminal which is capable of performing radio communication in order to provide a mobile subscriber with local information related to the area where his/her mobile terminal is located.

Kariya *does not disclose expressly*, a computer, however he discloses a radio communication device (col.6; 32-35), which could be obviously contains a computer.

24. Regarding Claim 24, Chern disclosed A location reporting method as described in claim 23, wherein, said acquiring step includes generating by said mobile communication terminal the location of itself using a global positioning system (hereinafter referred to as the GPS). (col.5; 48-60)

25. Regarding Claim 25, Chern disclosed A location reporting method as described in claim 23, wherein, said computer is a terminal connected to a network and capable of transmitting and receiving data by radio or wire. (col.4; 27-31)

26. Regarding Claim 26, Chern disclosed A location reporting method as described in claim 23, wherein, said mobile communication terminal is a portable telephone for performing phone conversations by radio. (col.4; 27-31)

27. Regarding Claim 27, Chern disclosed A mobile communication terminal, comprising: receiving means for receiving down data containing a request for location information from a

Art Unit: 2683

computer through a mobile communication network; acquiring means for acquiring the location information indicating a location of itself; and transmitting means for adding said acquired location information to said received data and transmitting said data as up data to said computer. (col.7; 33-44)

28. Regarding Claim 28, Chern disclosed all the particulars of the claim except means for detecting whether said down data contains a character string requesting location information acquisition time. However, Kariya teaches in an analogous art, that A mobile communication terminal as described in claim 27, further comprising: means for detecting whether said down data contains a character string requesting location information acquisition time; wherein, said acquiring means further acquires said location information acquisition time; and wherein, said transmitting means further adds said acquired location information acquisition time before transmission. (col.7; 49-col.8; 17) Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include means for detecting whether said down data contains a character string requesting location information acquisition time in order to provide local information periodically.

29. Regarding Claim 29, Chern disclosed A mobile communication terminal as described in claim 27, further comprising: means for detecting whether said down data contains a character string requesting information on a state of a user; and means for determining the state of the user of said mobile communication terminal from said acquired location information; and wherein, said transmitting means further adds the

information on said determined state of the user before transmission. (col.9; 45-65)

30. Regarding Claim 30, Chern disclosed A mobile communication terminal as described in claim 27, further comprising: means for detecting whether said down data contains a character string requesting information on a state of a user; and means for prompting the user of said mobile communication terminal to select his/her own state; and wherein, said transmitting means further adds information on said selected state of the user before transmission. (col.9; 45-65)

32. Regarding Claim 32, Chern disclosed all the particulars of the claim except down data contains a plurality of addresses. However, Kariya teaches in an analogous art, that A mobile communication terminal as described in claim 27, further comprising: means for detecting whether said down data contains a plurality of addresses; and means for obtaining said plurality of the addresses from said down data; and wherein, said transmitting means transmits said data to each of said plurality of the addresses in succession. (col.6; 11-18) Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include down data contains a plurality of addresses in order to provide a mobile subscriber with local information related to the area where his/her mobile terminal is located.

33. Regarding Claim 33, Chern disclosed all the particulars of the claim except location information are acquired and transmitted at predetermined intervals. However, Kariya teaches in an analogous art, that A mobile communication terminal as described in claim 27, wherein, after

Art Unit: 2683

receiving said down data, said location information are acquired at predetermined intervals before transmission. (col.5; 15-32) Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include location information are acquired and transmitted at predetermined intervals in order to provide local information periodically.

34. Regarding Claim 34, Chern disclosed all the particulars of the claim except location information are acquired and transmitted at predetermined intervals. However, Kariya teaches in an analogous art, that A mobile communication terminal as described in claim 33, wherein, said transmitting means transmits said location information acquired at said predetermined intervals during the period from a time point to another time point designated by said down data. (col.5; 15-32) Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include location information are acquired and transmitted at predetermined intervals in order to provide local information periodically.

35. Regarding Claim 35, Chern disclosed all the particulars of the claim except location information are acquired and transmitted at predetermined intervals. However, Kariya teaches in an analogous art, that A mobile communication terminal as described in claim 33, wherein, said transmitting means accumulates said location information acquired at said predetermined intervals before transmitting said location information at a time point designated by said down data. (col.5; 15-32) Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include location information are acquired and transmitted at predetermined intervals in order to provide local information periodically.

Art Unit: 2683

36. Regarding Claim 36, Chern disclosed A mobile communication terminal as described in claim 27, wherein, said acquiring means generates its location using a global positioning system. (col.5; 48-60)

39. Regarding Claim 39, Chern disclosed A mobile communication terminal as described in claim 27, wherein, said acquiring means is capable of acquiring location information by a plurality of different location measuring methods, and said down data contains information designating a location measuring method; wherein, said acquiring means includes means for selecting a location measuring method designated by said down data, from among said plurality of the location measuring methods; and wherein, said transmitting means transmits, carried on said up data, location information acquired by said acquiring means according to said selected location measuring method. (col.5; 48-60 & col.4; 13-19)

40. Regarding Claim 40, Chern disclosed A mobile communication terminal as described in claim 39, wherein said down data contains data designating a quality condition of location information; and wherein, said means for selecting a location measuring method selects a location measuring method based on said designated quality condition. (col.5; 48-60 & col.4; 13-19)

41. Regarding Claim 41, Chern disclosed A mobile communication terminal as described in claim 39, wherein, said location measuring method includes either one of a method using a global positioning system, or a method of identifying a base station covering an area in which said mobile communication terminal is located. (col.5; 48-60 & col.4; 13-19)

42. Regarding Claim 42, Chern disclosed A mobile communication terminal as described in claim 39, wherein said location information contains: latitude and longitude; or information based on an administrative classification. (col.4; 13-20)

43. Regarding Claim 43, Chern disclosed A mobile communication terminal as described in claim 27, further comprising: storage means for storing disclosure information indicating whether said computer requesting the location information of the mobile communication terminal is a computer to which said information is to be disclosed, wherein, said transmitting means adds, in the case of receiving down data from said computer to which said location information is to be disclosed, said acquired location information to said received data before transmitting to said computer as up data. (col.7; 1-11)

44. Regarding Claim 44, Chern disclosed A mobile communication terminal as described in claim 43, wherein, said transmitting means transmits, in the case of receiving down data from a computer to which said location information is not to be disclosed, a notice for rejecting the provision of the location information. (col.7; 33-44)

Art Unit: 2683

45. Regarding Claim 45, Chern disclosed A mobile communication terminal as described in claim 27, wherein said mobile communication terminal is a portable telephone for performing phone conversations by radio. (col.4; 27-31)

46. Regarding Claim 46, Chern disclosed A mobile communication terminal served by a mobile communication network, comprising:

acquiring means for acquiring location information indicating the location of itself, (col.10; 41-52) and transmitting means for adding said acquired location information to a network address for identifying a server supplying map information required for displaying the location information and transmitting said address to an arbitrary terminal. (col.10; 57-col.11; 10)

Chern fails to disclosed reporting location information of itself to a predetermined computer. However, Kariya teaches in an analogous art, that reporting location information of itself to a predetermined computer; (col.6; 32-46) Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include reporting location information of itself to a predetermined computer in order to provide a mobile subscriber with local information related to the area where his/her mobile terminal is located.

Kariya *does not disclose expressly*, a computer, however he discloses a radio communication device (col.6; 32-35), which could be obviously contains a computer.

47. Regarding Claim 47, Chern disclosed A location reporting method as described in claim 46, wherein, said acquiring means generates the location of itself using a global positioning system. (col.5; 48-60)

48. Regarding Claim 48, Chern disclosed A mobile communication terminal as described in claim 46, wherein, said mobile communication terminal is a portable telephone for performing phone conversations by radio. (col.4; 27-31)

Claims 12-13, & 37-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chern (US 6609005) (hereinafter Chern) & Kariya (US 6169897) (hereinafter Kariya) further in view of Fan et al. (US 5959577) (hereinafter Fan).

12. Regarding Claim 12, The above combination disclosed all the particulars of the claim except transmitting, by said mobile communication terminal, a request signal requesting a predetermined node of said mobile communication network to generate the location information. However, Fan teaches in an analogous art, that A location reporting method as described in claim 1, wherein, said acquiring step includes the steps of: transmitting, by said mobile communication terminal, a request signal requesting a predetermined node of said mobile communication network to generate the location information; generating, by said predetermined node, the location information of said mobile communication terminal in response to said request signal and transmitting said location information to said terminal; and receiving, by said mobile communication terminal, the location information transmitted from said node. (col.7; 47-67) Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include transmitting, by said mobile communication terminal, a request signal requesting a

predetermined node of said mobile communication network to generate the location information in order to provide a data network, such as the Internet, is involved in locating mobile units.

13. Regarding Claim 13, The above combination disclosed all the particulars of the claim except a plurality of satellites. However, Fan teaches in an analogous art, that A location reporting method as described in claim 12, further comprising the step of: receiving, by said mobile communication terminal, radio waves transmitted from a plurality of satellites constituting a global positioning system; wherein, said step of transmitting request signal includes transmitting information contained in a plurality of said received radio waves, together with said request signal; and wherein, said step of generating location information includes generating said location information using the information contained in said plurality of radio waves. (8; fig. 1; col.5; 2-7) Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include a plurality of satellites in order to provide a GPS receiver, position information of a mobile unit is determined from positioning signals received from GPS satellites and pseudo-ranges derived from the positioning signals.

37. Regarding Claim 37, The above combination disclosed all the particulars of the claim except transmitting, by said mobile communication terminal, a request signal requesting a predetermined node of said mobile communication network to generate the location information. However, Fan teaches in an analogous art, that A mobile communication terminal as described in claim 27, wherein, said acquiring means includes: request transmitting means for transmitting a request signal requesting a predetermined node of said mobile communication network to

Art Unit: 2683

generate the location information; and location information receiving means for receiving the location information transmitted, in response to said request signal, from said node. (col.7; 47-67) Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include transmitting, by said mobile communication terminal, a request signal requesting a predetermined node of said mobile communication network to generate the location information in order to provide a data network, such as the Internet, is involved in locating mobile units.

38. Regarding Claim 38, The above combination disclosed all the particulars of the claim except a plurality of satellites. However, Fan teaches in an analogous art, that A mobile communication terminal as described in claim 37, further comprising: means for receiving radio waves transmitted from a plurality of satellites constituting a global positioning system, wherein, said request signal transmitting means transmits information contained in said plurality of received radio waves, together with said request signal. (8; fig.1; col.5; 2-7) Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include a plurality of satellites in order to provide a GPS receiver, position information of a mobile unit is determined from positioning signals received from GPS satellites and pseudo-ranges derived from the positioning signals.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sharad Rampuria whose telephone number is 703-308-4736. The examiner can normally be reached on Mon-Fri. (9:00-5:30).

Art Unit: 2683

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Trost can be reached on 703-308-5318. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9314 for regular communications and 703-872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-4700.

Sharad Rampuria
June 22, 2004

A handwritten signature in black ink, appearing to read 'W. Trost', with a long horizontal stroke extending to the right.

**WILLIAM TROST
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600**